

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (original) A monitoring system comprising a twin-camera composed of first and second cameras forming a pair,

said first and second cameras being disposed such that at least portions of the ranges to be captured thereby overlap each other, and that the optical axes thereof form a predetermined angle of divergence when said optical axes are projected on a camera installation plane parallel to said optical axes,

the twist around the optical axis of at least one of said first and second cameras being set such that when an u-v plane of the visual field range of said at least one camera is projected on a reference plane at a right angle to the optical axis of said at least one camera, the u axis is not parallel to and does not intersect, at a right angle, the intersecting line of said reference plane and said camera installation plane.
2. (original) A monitoring system according to Claim 1, wherein said twin-camera is mounted on a vehicle for capturing both the surrounding of said vehicle and a place distant therefrom.
3. (original) A monitoring system according to Claim 2, wherein said twin-camera is disposed such that said angle of divergence is not less than 50° and not

greater than 90°, and that said twist is not less than 10° and not greater than 35° on the assumption that said twist is 0° when said u axis on said reference plane is parallel to said intersecting line of said reference plane and said camera installation plane.

4. (original) A monitoring system according to Claim 1, wherein each of said first and second cameras has a visual field range in the form of a square.

5. (original) A method of adjusting a twin-camera composed of a pair of cameras mounted on a vehicle for capturing both the surrounding of said vehicle and a place distant therefrom,

said camera adjusting method being characterized in that the tilt, pan and twist around the optical axis of each of said pair of cameras, are adjusted using, as indexes, the length of a portion, as captured by each camera, of the straight line indicating the capturing direction, the length of a portion, as captured by each camera, of a straight line extending along the vehicle end, and the area of the blind zone in the capturing direction.

6-7. (cancelled)

8. (currently amended) A vehicle monitoring system according to claim 1, further comprising:

at least one of said first and second ~~or a plurality of~~ cameras for capturing the surrounding of a vehicle; and

an image processing unit for generating, from the images captured by said one or plurality of cameras, a synthesized image viewed from a virtual view point, [[,]]

~~at least one of said one or plurality of cameras being mounted on said vehicle at a non-movable part of its door mirror, its window visor or its door knob mounting part.~~

9. (currently amended) A vehicle monitoring system according to claim 1, further comprising:

~~one or a plurality of cameras for capturing the surrounding of a vehicle; and
an image processing unit for generating, from the images captured by said one or plurality of cameras, a synthesized image viewed from a virtual view point,~~

at least one of said one or plurality of first and second cameras being disposed as corresponding to illumination means for irradiating light to the range to be captured by said at least one camera.

10. (cancelled)

11. (previously presented) A vehicle monitoring system comprising:

one or a plurality of cameras for capturing the surrounding of a vehicle; and
an image processing unit for generating, from the images captured by said one or plurality of cameras, a synthesized image viewed from a virtual view point,

at least one of said one or plurality of cameras being so retractably mounted on said vehicle as to be ejected when said camera is used, and as to be housed when said camera is not used;

wherein said retractable camera is arranged such that its ejecting and housing is controlled according to at least one of the gear setting or travelling speed of said vehicle.

12. (currently amended) A vehicle monitoring system according to claim 1, further comprising:

~~one or a plurality of cameras for capturing the surrounding of a vehicle; and
an image processing unit for generating, from the images captured by said one or plurality of cameras, a synthesized image viewed from a virtual view point,~~

at least one of said ~~one or plurality of~~ first and second cameras being mounted on said vehicle together with an openable member disposed at the front in the capturing direction of said at least one camera,

said openable member being so controlled as to be opened when said camera is used, and as to be closed when said camera is not used.

13. (new) A vehicle monitoring system according to claim 1, further comprising:

at least one of said first and second cameras being mounted on said vehicle at a non-movable part of its door mirror, its window visor or its door knob mounting part.